

Integration points

🌐 Language: [Deutsch](#) · [English](#)

📖 Integration points

Cleanly couple Nuclets: an integration point represents a business object of another Nuclet for references and rules.

REFERENZ

LOW-CODE

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APPLIES TO NUCLOS 4.2026.X

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What are integration points?

Integration points connect two **Nuclets**. An integration point in Nuclet A represents a [business object](#) from Nuclet B. This lets a BO in A hold a **reference field** to a BO in B, and rules in A can access BOs in B via the [Nuclos API](#) as usual.



As of Nuclos 4.20

As of Nuclos 4.20, **direct** references/access to business objects of other Nuclets are no longer possible – an integration point must be defined first. Existing legacy references keep working.

Menu: [Configuration](#) [Integration point](#)

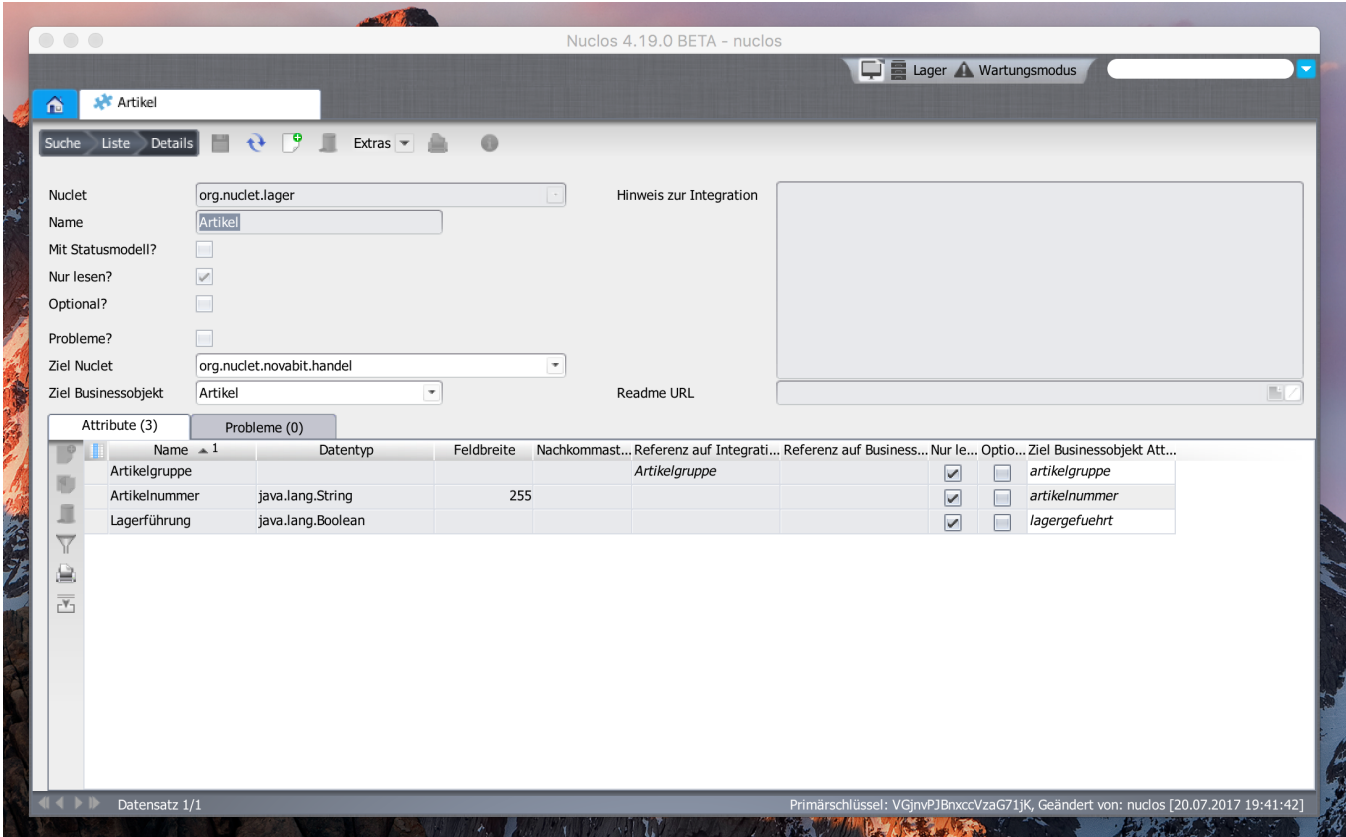
Aspects of an integration

- A Nuclet may need any number of BOs from any number of other Nuclets; but a Nuclet cannot be integrated into the same Nuclet more than once.
- An integration must be **completed**: do the mapping right after the Nuclet import, otherwise maintenance mode cannot be left.
- Missing target attributes can be generated automatically during integration.

The integration point form

Key fields and their effect on the generated BO class:

Attribute	Meaning
Nuclet	assignment of the integration point (determines the Java package)
Name	unique within the Nuclet; becomes the class name
With status model?	restricts target BOs; generates <code>implements Stateful</code>
Optional?	usage throws no error; queries return empty, but insert returns NULL
Target Nuclet / target BO	what everything is redirected to (set by the integrator)
View name	for use in data sources (view <prefix>_ip_<name>)



The screenshot shows the 'Artikel' integration point form in the Nuclos 4.19.0 BETA - nuclos application. The form is titled 'Artikel' and includes fields for 'Nuclet' (org.nuclet.lager), 'Name' (Artikel), 'Mit Statusmodell?' (unchecked), 'Nur lesen?' (checked), 'Optional?' (unchecked), 'Probleme?' (unchecked), 'Ziel Nuclet' (org.nuclet.novabit.handel), and 'Ziel Businessobjekt' (Artikel). A 'Hinweis zur Integration' section is on the right. Below the form is a table with columns: Name, Datentyp, Feldbreite, Nachkommast..., Referenz auf Integrati..., Referenz auf Business..., Nur le..., Optio..., Ziel Businessobjekt, and Att... The table lists three attributes: Artikelgruppe, Artikelnummer, and Lagerführung. The status bar at the bottom shows 'Datensatz 1/1' and 'Primärschlüssel: VGjnvPJ8nxcVzaG71jK, Geändert von: nuclos [20.07.2017 19:41:42]'.

The integration point form from the integrator's view.

Rules on integration points

A Nuclet can bring rules (insert/update/delete/custom ...) executed on the target BO – the Nuclet author attaches them to the integration points in the [serve r rule manager](#). These rules always run **after** the target BO's rules.

Import/export

Integration points are automatically part of the Nuclet. As of Nuclos 4.30, changes to the integration are only applied on import if the target BO is part of the imported Nuclet (dependency in the project Nuclet). Otherwise an existing integration is left untouched.

Related pages

 **Business object**

 **Rule sets**

Define references.

[Open](#)

Rules on the target BO.

[Open](#)